Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)	Application Number
APV-036.06	09/[redacted],491
Applicant	
Berlin, V. et al.	
Filing Date	**Group Art Unit**
2 March 2000	

U.S. PATENT DOCUMENTS

	DOCUMENT NUMBER		DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RZ	AA	3,929,992	12/75	Sehgal et al.	424	122	
RZ	AB	5,283,317	02/94	Saifer et al.	528	405	
RZ	AC	5,322,772	06/94	Soldin	435	7.9	
RZ	AD	5,354,845	11/94	Soldin	530	350	
	AE						
	AF						
	AG						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUBCLASS	Translation YES	Translation NO
RZ	AH	WO 94/10300	05/94	PCT				
	AI							

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	AJ	Alarcon, C. et al., "Mammalian RAFT1 Kinase Domain Provides Rapamycin-sensitive TOR Function in Yeast", *Genes Dev.* 10(3):
RZ	AK	Albers, M. et al., "FKBP-Rapamycin Inhibits a Cyclin-dependent Kinase activity and a Cyclin D1-Cdk Association in Early G1 of an Osteosarcoma Cell Line", *J. Biol. Chem.* 268: 22825-22829 (1993)
	AL	Barbet, N. et al., "TOR Controls Translation Initiation and Early G1 Progression in Yeast", *Mol. Biol. Cell* 7(1): 25-42 (1996)
RZ	AM	Bierer, B. et al., "Probing Immunosuppressant Action with a Nonnatural Immunophilin Ligand', *Science* 250: 556-559 (1990)
RZ	AN	Bierer, B. et al., "Two Distinct Signal Transmission Pathways in T Lymphochtes are Inhibited by Complexes Formed between an Immunophilin and either FK506 or Rapamycin", *Proc. Nat. Acad. Sci. USA* 87: 231-9235
RZ	AO	Brown, . Et al., "A Mammalian Protein Targeted by G1-arresting Rapamycin-receptor Complex", *Nature* 369: 756-758 (1994)
RZ	AP	Cafferkey, R. et al., "Dominant Missense Mutations in a Novel Yeast Protein Related to Mammalian Phosphatidylinositol 3-Kinase and VPS34 Abrogate Rapamycin Cytotoxicity", *Mol. Cell. Biol.* 13: 6012-6023
RZ	AQ	Cafferkey, R. et al., "Yeast TOR (DRR) Proteins: Amino-acid Sequence Alignment and Identification of Structural Motifs", *Gene* 141: 133-136 (1994)
	AR	Cardenas, M. and Heitman, J. "FKBP12-rapamycin Target TOR2 is a Vacuolar Protein with an Associated Phosphatidylinositol-4 Kinase Activty", *EMBO J.* 14(23): 5892-5907 (1995)
RZ	AS	Chui, M. et al., "RAPT1, a Mammalian Homolog of Yeast Tor, Interacts with the FKBP12/rapamycin Complex", *Proc. Nat. Acad. Sci. USA* 91: 12574-12578 (1994)

EXAMINER	DATE CONSIDERED
Robert Lewis	1-9-03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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3/2/00	1645

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

RK	AT	Chung, J. et al., "Rapamycin-FKBP Specifically Blocks Growth-Dependent Activation of and Signaling by the 70 kd S6 Protein Kinases", *Cell* 69: 1227-1236 (1992)
RK	AU	DiLella, A. and Craig, R., "Exon Organization of the Human FKBP-12 Gene: Correlation with Structural and Functional Protein Domains", *Biochem.* 30: 8512-8517 (1991)
RK	AV	Draetta, G., "Cell Cycle Control in Ekaryotes: Molecular Mechanisms of cdc2 Activation", *Trends Biol. Sci.* 15: 378-383 (1990)
RK	AW	Dumont, F. et al., "The Immunosuppressive Macrolides FK-506 and Rapamycin Act as Reciprocal Antagonists in Murine T Cells", *J. Immunol.* 144: 1418-1424 (1990)
	AX	Ferrara, A. et al., "Cloning and Sequence Analysis of a Rapamycin-binding Protein-encoding Gene (RBP1) from Candida Albicans", *Gene* 113: 125-127 (1992)
RK	AY	Francavilla, A. et al., "Effects of Rapamycin on Cultured Hepatocyte Proliferation and Gene Expression", *Hepatol.* 15: 871-877 (1992)
	AZ	Freeman, K. and Livi, G., "Missense Mutations at the FKBP12-rapamycin-binding Site of TOR1", *Gene* 172(1): 143-147 (1996)
RK	BA	Fruman, D. et al., "Immunophilins in Protein Folding and Immunosuppression", *FASEB J.* 8: 391-400 (1994)
RK	BB	Galat, A. "Peptidylproline *cis-trans*-isomerases: Immunophilins", *Eur. J. Biochem.* 216: 689-707 (1993)
RK	BC	Harding, M. et al., "A Receptor for the Immunosuppressant FK506 is a *cis-trans* Peptidyl-prolyl Isomerase", *Nature* 341: 758-760 (1989)
RK	BD	Heitman, J. et al., "Targets for Cell Cycle Arrest by the Immunosuppressant Rapamycin in Yeast", *Science* 253: 905-909 (1991)
RK	BE	Helliwell, S. et al., "TOR1 and TOR2 are Structurally and Functionally Similar but not Identical Phosphatiylinositol Kinase Homologues in Yeast", *Mol. Biol. Cell.* 5: 105-118 (1994)
	BF	Huang, M. et al., Analysis of a 62 kb DNA Sequence of Chromosome X Reveals 36 Open Reading Frames and a Gene Cluster with a Counterpart on Chromosome XI", *Yeast* 12 (9): 869-875 (1996)
	BG	Kato, R. and Ogawa, H., "An Essential Gene, ESR1, is Required for Mitotic Cell Growth, DNA Repair and Meiotic Recombination in Saccharomyces Cerevisiae", *Nucl.eic Acid Res.* 22(15): 3104-3112 (1994)
RK	BH	Kunz, J. et al., "Target of Rapamycin in Yeast, TOR2, Is an Essential Phosphatidylinositol Kinase Homolog Required for G_1 Progression", *Cell* 73: 585-596 (1993)
	BI	Lorenz, M. and Heitman, J., "TOR Mutations Confer Rapamycin Resistance by Preventing Interaction with FKBP12-Rapamycin", *J. Biol. Chem.* 270(46): 27531-27537 (1995)
RK	BJ	Morice, W. et al., "Rapamycin-induced Inhibition of $p34^{cdc2}$ Kinase Activation is Associated with G_1/S-phase Growth Arrest in T Lymphocytes", *J. Biol. Chem.* 268: 3734-3738 (1993)
RK	BK	Pardee, A., "G_1 Events and Regulation of Cell Proliferation", *Science* 246: 603-608 (1989)
RK	BL	Price, D. et al., "Rapamycin-Induced Inhibition of the 70-Kilodalton S6 Protein Kinase", *Science* 257: 973-977 (1992)
	BM	Sabatini, D. et al., "The Rapamycin and FKBP12 Target (RAFT) Displays Phosphatidylinositol 4-Kinase Activity", *J. Biol. Chem.* 270(36): 20875-20878 (1995)
RK	BN	Sabatini, D. et al., "RAFT1: A Mammalian Protein that Binds to FKBP12 in a Rapamycin-dependent Fashion and is Homologous to Yeast TORs", *Cell* 78: 35-38 (1994)

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RK	BQ	Sabers, C. et al., "Isolation of a Protein Target of the FKBP12-rapamycin Complex in Mammalian Cells", *J. Biol. Chem.* 270: 815-822 (1995)
	BP	Schmidt, A. et al., "TOR2 is Required for Organization of the Actin Cytoskeleton in Yeast", *Proc. Nat. Acad. Sci. USA* 93(24): 13780-13785 (1996)
RK	BO	Schreiber, S., "Immunophilin-sensitive Protein Phosphatase Action in Cell Signaling Pathways", *Cell* 70: 365-368 (1992)
RK	BR	Schreiber, S. and Crabtree, G., "The Mechanism of Action of Cyclosporin A and FK506", *Immunol. Today* 13: 136-142 (1992)
RK	BS	Sehgal, S. et al., "Rapamycin (AY-22,989), A New Antifungal Antibiotic. II. Fermentation, Isolation and Characterization", *J. Antibiotics* 28: 727-732 (1975)
RK	BT	Sherr, C., "Mammalian G_1 Cyclins", *Cell* 73: 1059-1065 (1993)
RK	BU	Siekierka, J. et al., "A Cytosolic Binding Protein for the Immunosuppressant FK506 has Peptidylprolyl Isomerase Activity but is Distinct from Cyclophilin:, *Nature* 341: 755-757 (1989)
RK	BV	Sigal, N. and Dumont, F., "CYCLOSPORIN A, FK-506, AND RAPAMYCIN: Pharmacologic Probes of Lymphocyte Signal Transduction", *Ann. Rev. Immunol.* 10: 519-560 (1992)
	BW	Sigal, N. et al., "Inhibition of Human T-cell Activation by FK 506, Rapamycin, and Cyclosporine A", *Transplantation Proc.* 23 (2 Supp. 2): 1-5 (1991)
	BX	Silver, L. et al., "TOR1 is a Novel, Variant Form of Mouse Chromosome 17 with a Deletion in a Partial T Haplotype", *Nature* 301(5899): 422-424 (1983)
RK	BY	Soltoff, S. et al., "Nerve Growth Factor Promotes the Activation of Phosphatidylinositol 3-Kinase and its Association with the *trk* Tryosine Kinase", *J. Biol. Chem.* 267: 17472-17477 (1992)
	BZ	Stan, R. et al., "Interaction between FKBP12-rapamycin and TOR Involves a Conserved Serine Residue", J. *Biol. Chem.* 269(51): 32027-32030 (1994)
RK	CA	Van Duyne, G. et al., "Atomic Structure of FKBP-FK506, an Immunophilin-immunosuppressant Complex", *Science* 252: 839-843 (1991)
RK	CB	Van Duyne, G. et al., "Atomic Structures of the Human Immunophilin FKBP-12 Complexes with FK506 and Rapamycin", *J. Mol. Biol.* 229: 105-124 (1993)
	CC	Vezina, C. et al., "Rapamycin (AY-22,989), a New Antifungal Antibiotic. I. Taxonomy of the Producing Streptomycete and Isolation of the Active Principle", *J. Antibiotics* 28: 721-726 (1975)
RK	CD	Walsh, C. et al., "Cyclosporin A, the Cylophilin Class of Peptidylprolyl Isomerases, and Blockade of T Cell Signal Transduction", *J. Biol. Chem.* 267: 13115-13118 (1992)
	CE	Zheng, X. et al., "TOR Kinase Domains are Required for Two Distinct Functions, Only One of which is Inhibited by Rapamycin", *Cell* 82(1): 121-130 (1995)
	CF	Berlin, V. "Identification of Novel Immunosuppressant", Abstract of NIH Grant R43AI34189 (1993)
	CG	International Search Report, October 1995
	CH	

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Robert Fleming	1-9-03

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